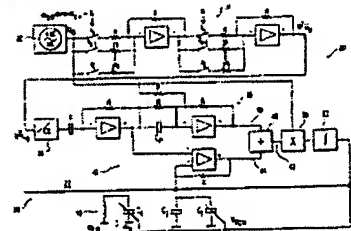


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- ✖ L18: (1) ("0766391").PN.
- ✖ L19: (0) ("0766391").PN.
- ✖ L20: (0) ("EP766391A").PN.
- ✖ L21: (0) ("EP766391A").PN.
- ✖ L22: (0) ("EP766391A").PN.
- ✖ L23: (7.580) (LC inductance inductor capacitance capacitor) and tuner
- ✖ L24: (2.646) 23 and (frequency near3 control\$4)
- ✖ L25: (20) 24 and "fixed inductance"
- ✖ L26: (11) 25 and "variable capacitance"
- ✖ L27: (1) 26 and (adjust\$3 near8 "variable capacitance")
- ✖ L28: (10.710) tunable near5 filter
- ✖ L29: (22) 28 and (adjust\$3 near8 "variable capacitance")
- ✖ L30: (14) 29 and (frequency near3 control\$4)
- ✖ L31: (1) 30 and "fixed inductance"
- ✖ L32: (1) 30 and "external load capacitor"
- ✖ L33: (7) 29 and (frequency near3 control\$4)
- ✖ L34: (1) 29 and (frequency near3 control\$4).clm.
- ✖ L35: (1) 30 and "external load capacitor".clm.

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United States  
Patent Application Publication  
Publication No. US 2006/0072276 A1  
Pub. Date: Apr. 6, 2006

**TUNABLE TRACKING FILTER**  
Inventor: Joseph Michael Ruitenburg  
Attorney: KONGSKILLER PHELPS LLP  
IPC Class: H03H 7/40  
NCL Class: H03H 7/40  
Pub. No.: PCT/US2004/011000



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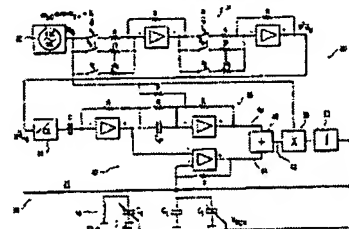
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1			US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburg, Leonardus Joseph Michael	

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
1			US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburt, Leonardus Joseph Michael	P



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 L21: (0) ("EP766391A").PN.  
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 L29: (22) 28 and (adjust\$3 near8 "variable capacitance")  
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 L33: (7) 29 and (frequency near3 control\$4)

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DBs USPAT

☒ Plurals

Default operator: OR

☒ Highlight all hit terms initially

29 and (frequency near3 control\$4)

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2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6983136 B2	20060103	10	Directly tuned filter and method of directly tuning a filter	455/307	455/226.1; 455/306;		Mason, Ralph et al.	<input checked="" type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6859097 B2	20050222	16	Radio frequency feedback amplifier circuits	330/107	330/305		Chandler, Stephen Anthony Gerard	<input checked="" type="checkbox"/>
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 6072999 A	20000606	14	Receiving apparatus	455/286	333/175; 333/202;		Konishi, Takaaki et al.	<input checked="" type="checkbox"/>
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	US 5949290 A	19990907	9	Voltage controlled oscillator tuning apparatus and method	331/9	327/105; 331/1R;		Bertram, Earnest L.	<input checked="" type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 3935534 A	19760127	22	Converter-tuner for information	725/151	348/E7.049		Lewis, David E. et al.	<input checked="" type="checkbox"/>

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- ☞ L8: (25) 7 and (frequency near3 control\$4)
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- ☞ L11: (0) 10 and (adjust\$3 near8 "variable capacitance")
- ☞ L12: (0) 10 and "external load capacitor"
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- ☞ L17: (0) ("EP766391").PN.
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- ☞ L27: (1) 26 and (adjust\$3 near8 "variable capacitance")
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- ☞ L30: (14) 29 and (frequency near3 control\$4)
- ☞ L31: (1) 30 and "fixed inductance"
- ☞ L32: (1) 30 and "external load capacitor"



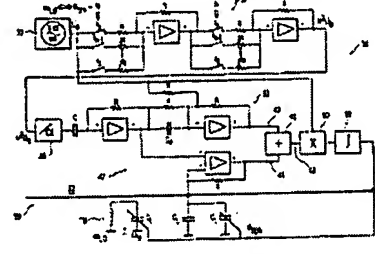
US 2006/02276 A1

United States  
Patent Application Publication (Pub. No.: US 2006/02276 A1)  
Publication Date: Apr. 6, 2006

(51) Int. Cl. H03H 7/00  
(52) U.S. Cl. 330.253  
(53) U.S. Cl. 330.253

INVENTOR: LEONARDUS JOSEPH RUITENBURG, JR.  
BY: [Signature] / [Name]  
ATTORNEY: [Name]

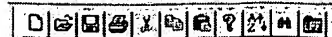
ABSTRACT: A tunable tracking filter is disclosed. The filter includes an input stage, a variable capacitor, and a fixed inductor. The filter is configured to receive an input signal and output a filtered signal. The filter is configured to track a target frequency and maintain a constant bandwidth. The filter is configured to track a target frequency and maintain a constant bandwidth. The filter is configured to track a target frequency and maintain a constant bandwidth.



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	U	1	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
1			US 20060072276 A1	20060406	6	Tunable tracking filter	361/113			Ruitenburg, Leonardus Joseph Michael	

Hits Details HTML



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- ☞ L1: (102,630) "455"/\$.ccls. or "334"/\$.ccls.
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- ☞ L3: (56) 2 and "variable capacitance"
- ☞ L4: (43) 3 and inductance
- ☞ L5: (0) 3 and "fixed inductance"
- ☞ L6: (26) 4 and "band pass filter"
- ☞ L7: (26) 6 and voltage
- ☞ L8: (25) 7 and (frequency near3 control\$4)
- ☞ L9: (0) 8 and "arbitrary oscillator frequency"
- ☞ L10: (24) 8 and "oscillator frequency"
- ☞ L11: (0) 10 and (adjust\$3 near8 "variable capacitance")
- ☞ L12: (0) 10 and "external load capacitor"
- ☞ L13: (1) ("5060297").PN.
- ☞ L14: (0) "EP 0766391 A"
- ☞ L15: (0) ("EP766391A").PN.
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- ☞ L24: (2,646) 23 and (frequency near3 control\$4)
- ☞ L25: (20) 24 and "fixed inductance"
- ☞ L26: (11) 25 and "variable capacitance"
- ☞ L27: (1) 26 and (adjust\$3 near8 "variable capacitance")

(10) United States (20) Patent Application Publication (30) Pub. No.: US 2006/0072276 A1 (40) Pub. Date: Apr. 6, 2006	
(50) TUNABLE TRACKING FILTER	
(60) Inventor: Leonardus Joseph Michael Ruitenberg, Tucson, AZ	
(70) Correspondence Address: PHILIP L. RUITENBURG & NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS 1100 W. BAY DRIVE, SUITE 1100 SAN JOSE, CA 95128 (U.S.)	
(80) Attorney: KOPPELMAN, PHILIP L. & L.L.C. TUCSON, AZ	
(90) APL No.: 10538372 (91) PCT No.: No. P. 2003 (92) PCT No.: PCT/US03/00000	
(100) Publication Classification (110) Int. Cl. (120) H03H 1/00 (2006.01) (130) H03H 1/00 (2006.01)	
(140) ABSTRACT An integrated circuit (IC) with an arbitrary frequency... The circuit includes an integrated circuit with a band-pass... frequency control loop (30) and a variable external variable... capacitance (40) to achieve a tracking of a signal (1) and... time (10) with an arbitrary frequency.	

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	U	I	Document ID	Issue Date	Pages	Title	Current OR	Current X	Ret	Inventor	S
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